

# Digital Topographic Support System (DTSS) (WRAP Candidate)



**MISSION**

Provide commanders at brigade through echelons above corps with automated terrain analysis, terrain database management, and graphics reproduction in support of intelligence preparation of the battlefield, command and control, terrain visualization, and weapons and sensor systems.

**DESCRIPTION AND SPECIFICATIONS**

The Digital Topographic Support System (DTSS) is a standard, automated, tactical combat support system capable of receiving, formatting, creating, manipulating, merging, updating, storing, and retrieving digital topographic data and then processing these data into hardcopy and softcopy topographic products. DTSS accepts topographic and multi-spectral imagery data from the National Imagery and Mapping Agency's standard digital databases, commercial sources, and national technical means assets.

DTSS functional capabilities include creation of intervisibility, mobility, environmental, 3-D terrain visualization, and special-purpose products; and the creation, augmentation, modification, and management of topographic data. The DTSS will provide updated map background, terrain intelligence, and terrain data management to all the Army Battle Command System workstations on the battlefield and accept terrain intelligence/data updates from these systems.

DTSS uses the latest commercial off-the-shelf technology in printers, scanners, and computer workstations combined with image processing and geographic information system software. DTSS will be supported by environmental control units, generators, and communication equipment that are part of the standard Army inventory. The tactical system will be produced in two variants: heavy (DTSS-H) and light (DTSS-L). DTSS-H will be housed in a 20 ft International Standards Organization (ISO) shelter and mounted on a standard five-ton truck. DTSS-L will be housed in a lightweight multipurpose shelter mounted on a High-Mobility Multipurpose Wheeled Vehicle (HMMWV).

**FOREIGN COUNTERPART**

United Kingdom: TACISYS, Australia: TOPOSS, Canada: DGSS.

**FOREIGN MILITARY SALES**

None

**PROGRAM STATUS**

**March 3, 1999** Awarded DTSS-L production contract (20 systems).

**March 31, 1999** Procured resident school training hardware and software.

**December 14, 1999** Completed fielding of DTSS-H (9 systems).

**December 28, 1999** Awarded DTSS-L production option (16 systems).

**2QFY00** Conducted first article test for the DTSS-L.

**PROJECTED ACTIVITIES**

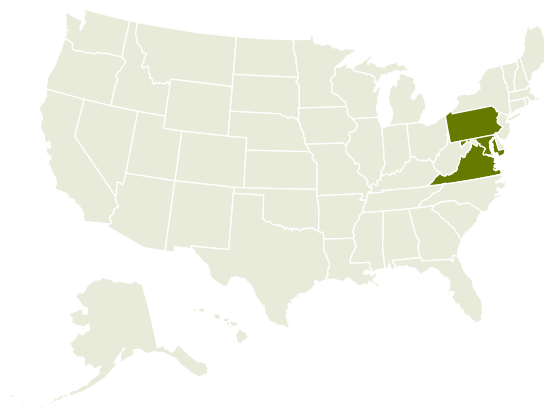
**3QFY00** Deliver Build 6.2 software to 4ID.

**4QFY00** DTSS-L first unit equipped.

**FY00-14** Continue DTSS phase I preplanned product improvements program.

**PRIME CONTRACTORS**

Litton/TASC (Reston, VA); SFA (Frederick, MD); Sechan Electronics (Lititz, PA)



\* See appendix for list of subcontractors



Project the Force



Protect the Force



Gain Information  
Dominance



Shape the Battlespace



Conduct Decisive  
Operations



Sustain the Force